OIPE

RAW SEQUENCE LISTING   DATE: 08/23/2001
PATENT APPLICATION: US/09/928,047   TIME: 16:01:06

Input Set : A:\ES.txt
Output Set: N:\CRF3\08162001\I928047.raw

    4 <110> APPLICANT: Cantor, Thomas L.
    6 <120> TITLE OF INVENTION: Cyclase Inhibiting Parathyroid Hormone Antagonists or
Modulators and
    7   Osteoporosis
C-->   9 <140> CURRENT APPLICATION NUMBER: US/09/928,047
C-->   9 <141> CURRENT FILING DATE: 2001-08-10
W-->   0 <130> FILE REFERENCE:
    9 <160> NUMBER OF SEQ ID NOS: 5
   11 <170> SOFTWARE: Microsoft Word 2000 - ASCII format

ERRORED SEQUENCES

   14 <210> SEQ ID NO: 1
   16 <211> LENGTH: 83 [integer length]   delete
   18 <212> TYPE: PRT
   20 <213> ORGANISM: human parathyroid hormone peptide fragment
   22 <400> SEQUENCE: 1
   24 Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
   25 1   5   10   15
   27 Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val
   28   20   25   30
   30 His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala
   31   35   40   45
   33 Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu
   34   50   55   60
   36 Ser His Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val Asn
   37   65   70   75
E-->   39 Val Leu Thyr Lys Ala Lys Ser Gln   → invalid
   40   80
   44 <210> SEQ ID NO: 2
   46 <211> LENGTH: 51 [integer length]
   48 <212> TYPE: PRT
   50 <213> ORGANISM: human parathyroid hormone peptide fragment
   52 <400> SEQUENCE: 2
   54 Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
   55 1   5   10   15
   57 Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His
   58   20   25   30
   60 Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val Asn Val Leu
   61   35   40   45
E-->   63 Thyr Lys Ala Lys Ser Gln
   64   50
   68 <210> SEQ ID NO: 3
   70 <211> LENGTH: 82 [integer length]
   72 <212> TYPE: PRT
   74 <213> ORGANISM: human parathyroid hormone peptide fragment
   76 <400> SEQUENCE: 3

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```
78 Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn Ser
7+1                 5                 10                        15
81 Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
82                  20                25                        30
83 Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly
85                  35                40                        45
87 Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser
88                  50                55                        60
90 His Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val Asn Val
91                  65                70                        75
```

E--> 93 Leu Thr Lys Ala Lys Ser Gln
```
94                  80
96 <210> SEQ ID NO: 4
100 <211> LENGTH: 57 [integer length]
102 <212> TYPE: PRT
104 <213> ORGANISM: human parathyroid hormone peptide fragment
106 <400> SEQUENCE: 4
109 Leu Gln Asp Val His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala
110 1                5                 10                       15
112 Pro Arg Asp Ala Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn
113                 20                25                       30
115 Val Leu Val Glu Ser His Glu Lys Ser Leu Gly Glu Ala Asn Lys
116                 35                40                       45
```

E--> 118 Ala Asp Val Asn Val Leu Thr Lys Ala Lys Ser Gln
```
119                 50                55
123 <210> SEQ ID NO: 5
125 <211> LENGTH: 57 [integer length]
127 <212> TYPE: PRT
129 <213> ORGANISM: human parathyroid hormone peptide fragment
131 <400> SEQUENCE: 5
133 Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu
134 1                5                 10                       15
136 Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp
147                 20                25                       30
139 Val His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp
140                 35                40                       45
142 Ala Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val
143                 50                55                       60
145 Glu Ser His Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val
146                 65                70                       75
```

E--> 148 Asn Val Leu Thr Lys Ala Lys Ser Gln
E--> 149   80

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/928,047

DATE: 08/23/2001
TIME: 16:01:07

Input Set : A:\ES.txt
Output Set: N:\CRF3\08162001\I928047.raw

L 9 M:270 C: Current Application Number differs, Replaced Current Application No
L 9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L 0 M:201 W: Mandatory field data missing, FILE REFERENCE
L 39 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L 39 M:320 E (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L 63 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L 63 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L 93 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L 93 M:320 E. (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L 118 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L 118 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L 148 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L 148 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L 149 M:252 E: No. of Seq. differs, <211>LENGTH:Input:57 Found:84 SEQ.5